CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No: CTCE/BBMP/W.No.03/AKR/CSR.2/772d/CEMENT/2014-15 Date: 25.02.2015

TEST REPORT ON CEMENT

* CUSTOMER	:	Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
*AGENCY	:	Mr. A. Kumar Reddy, No.44, Kaverinagara, A Block, Kavalabyrasandra, R.T. Nagara Post, Bangalore – 32.
*NAME OF THE WORK	:	Construction of Toilet Buildings Right Side of Sandeep Unni Krishnan Road Attur Layout in Attur Ward No.03, BBMP, Bangalore.
REFERENCE	:	AEE/BBMP/YNSD/AE-3/2014-15 Dated: 23.02.2015
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	23.02.2015
PERIOD OF TESTING	:	23.02.2015 to 25.02.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	465 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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T-2377

Lab No: CTCE/BBMP/WNo03/AKR/CSR2/7721/SAND-Gradation/2014-15 : 25.02.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer	: Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: Mr. A. Kumar Reddy, No.44, Kaveribagara, A Block, Kavalubyrasandra, R.T. Nagara Post, Bangalore – 32.
* Name of Work	: Construction of Toilet Buildings Right Side of Sandeep Unni Krishnan Road Attur Layout in Attur Ward No.03, BBMP, Bangalore.
Reference	: AEE/BBMP/YNSD/AE-3/2014-15 Dated: 23.02.2015
Technical Reference	: IS : 2386 Part 1 - 1963 RA-2007
Sample ID	: Fine Aggregates
Sample Received on	: 23.02.2015
Date of Testing	: 25.02.2015

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	92.72	90-100	90-100	90-100	95-100
2.36	80.08	60-95	75-100	85-100	95-100
1.18	57.61	30-70	55-90	75-100	90-100
600 Micron	26.09	15-34	35-59	60-79	80-100
300 Micron	13.44	5-20	8-30	12-40	15-50
150 Micron	6.17	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Lab No.: CTCE/BBMP/W.No.03/AKR/CSR.2/772d/AGG/GR/2014-15 : 25.02.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: **Mr. A. Kumar Reddy,** No.44, Kaverinagara, A Block, Kavalubyrasandra, R.T. Nagara Post, Bangalore – 32.
* Name of Work	: Construction of Toilet Buildings Right Side of Sandeep Unni Krishnan Road Attur Layout in Attur Ward No.03, BBMP, Bangalore.
Reference	: AEE/BBMP/YNSD/AE-3/2014-15 Dated: 23.02.2015
Technical Reference	: IS.: 2386 Part I -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 23.02.2015
Date of Testing	: 25.02.2015

Total Wt. of Aggregates in gms= 10000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.85	95-100	85-100
20	48.15	30-70	0-20
10	25.30	10-35	0-5
4.75	2.90	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No : CTCE/BBMP/WNo.03/ARR/CSR.2/7720/AGG/GR/2014-15 : 25.02.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: Mr. A. Kumar Reddy, No.44, Kaverinagara, A Block, Kavalubyrasandra, R.T. Nagara Post, Bangalore – 32.
* Name of Work	: Construction of Toilet Buildings Right Side of Sandeep Unni Krishnan Road Attur Layout in Attur Ward No.03, BBMP, Bangalore.
Reference	: AEE/BBMP/YNSD/AE-3/2014-15 Dated: 23.02.2015
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (20mm)
Sample Received on	: 23.02.2015
Date of Testing	: 25.02.2015

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2007)	
		Graded	Single Sized
40	100	100	100
20	89.76	95-100	85-100
10	16.80	25-55	0-20
4.75	3.76	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Single Sized specific limits

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Job No: CTCE/BBMP/WNo.03/AKR/STEEL/2014-15 27.02.2015

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
Agency	:	**Mr. A. Kumar Reddy,** No 44, Kavemnagara, A Block, Kavalubyrasandra, R.T. Nagara Post, Bangalore – 32.
Name of the work	:	Construction of Toilet Buildings Right Side of Sandeep Unni Krishnan Road Attur Layout in Attur Ward No.03, BBMP, Bangalore.
Reference	:	AEE/BBMP/YNSD/AE-3/2014-15 Dated: 23.02.2015
Date of Test	:	27.02.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	8	0.40	510	552	13.20	O.K	O.K

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Job No: CTCE/BBMP/W.No.03/AKR/STEEL/2014-15 27.02.2015

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore
Agency	:	Mr. A. Kumar Reddy, No.44, Kaverinagara, A Block, Kavalubyrasandra, R.T. Nagara Post, Bangalore – 32.
Name of the work	:	Construction of Toilet Buildings Right Side of Sandeep Unni Krishnan Road Amar Layout in Amar Ward No.03, BBMP, Bangalore.
Reference	:	AEE/BBMP/YNSD/AE-3/2014-15 Dated: 23.02.2015
Date of Test	:	27.02.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per meter (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	513	556	13.55	O.K	O.K

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Job No: CTCE/BBMP/RC No.09/AKR/STEEL/2014-15 27.02.2015

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Agency	:	Mr. A. Kumar Reddy, No.44, Kaverinagara, A Block, Kavalabyrasandra, R.T. Nagara Post, Bangalore – 32.
Name of the work	:	Construction of Toilet Buildings Right Side of Sandeep Unni Krishnan Road Amur Layout in Amur Ward No.03, BBMP, Bangalore.
Reference	:	AEE/BBMP/YNSD/AE-3/2014-15 Dated: 23.02.2015
Date of Test	:	27.02.2015
Technical Reference	:	IS: 1786-2008

SL No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	12	0.89	515	558	15.80	O.K	O.K

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Job No.: CTCE/BBMP/WNo.03/AKR/CSR.2/772d/CC Solid Block/2014-15 : 09.03.2015

TEST REPORT ON SOLID CONCRETE BLOCKS

* Customer	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP,
* Agency	: **Mr. A. Kumar Reddy,** No.44, Kaverinagara, A Block, Kavalubyrasandra, RT. Nagara Post, Bangalore – 32.
* Name of the Work	: Construction of Toilet Buildings Right Side of Sandeep Unni Krishnan Road Attur Layout in Attur Ward No.03, BBMP, Bangalore.
Reference	: AEE/BBMP/YNSD/AE-3/2014-15 Dated: 23.02.2015
Sample Received on	: 01.03.2015
Date of Testing	: 09.03.2015
Size of Blocks	: 400mm x 200mm x 200mm
Gross Sectional Area	: 80000 mm^2
Technical Reference	: IS: 2185 (Part 1) - 2005
No. of Blocks Tested	: 08

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	35.92	263.5	3.29	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
2	Block 2	36.24	260.4	3.26	
3	Block 3	34.58	262.7	3.28	
4	Block 4	35.63	261.3	3.27	
5	Block 5	34.87	263.8	3.30	
6	Block 6	35.48	264.2	3.30	
7	Block 7	36.54	262.8	3.29	
8	Block 8	35.37	261.5	3.27	

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Job No.: CTCE/BBMP/W.No.03/AKR/CSR.2/772d/CUBE/2014-15 17.04.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Client : **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.

* Agency : **Mr. A. Kumar Reddy,**
No.44, Kaverinagara, A Block, Kavalabyrasandra, R.T. Nagara Post, Bangalore – 32.

* Name of the work : Construction of Toilet Buildings Right Side of Sandeep Unni Krishnan Road Attur Layout in Attur Ward No.03, BBMP, Bangalore.

* Reference : AEE/BBMP/YNSD/AE-3/2014-15 Dated: 23.02.2015

* Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M_{25}

Compressive Strength as on : 28^{th} day

Sample Received on : 20.03.2015

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.03.2015	17.04.2015	8.164	485.6	21.58
2	20.03.2015	17.04.2015	8.287	493.8	21.95
3	20.03.2015	17.04.2015	8.362	508.4	22.60

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